Nepal Electricity Authority
Transmission Directorate
Tumlingtar-Sitalpati 220 kV Transmission Line Project

Procurement of Plant Design, Supply, Installation, Testing and Commissioning of Tumlingtar-Sitalpati 220kV Transmission Line and 220kV(GIS)/132/33/11kV AIS Substation at Sitalpati, Sankhuwasabha

Bid/Contract Identification No: TSTLP/NEA/78/79-1

Clarification 1

S.N.	Volume/Section	Clause	Clause Description	Bidder's Query	NEA clarifications
1	Volume I, Section 3- Special Condition of Contract; page 8-13	26	Completion Time Guarantee Applicable rate for liquidated damages: 0.5% (zero point five percent) of the contract price or the relevant part there of per week	From the said clause, we understand 0.5% per week of Liquidated Damages shall be levied on undelivered portion of the contract price. Kindly confirm.	Please refer SCC clause 26, which is amply clear
2	Volume I, Section 3- Evaluation and Qualification Criteria; Page 3-9	2.4.2 (a.i)	Participation as a prime contractor, Management contractor or Subcontractor, in at least 1 (one) EPC/Turnkey/ DB Contract within the last 10 (Ten) years, with a value of at least US$ 12.4 Million that have been successfully or substantially completed and that are similar to the proposed works.	We understand the bidder need to fill the form "Form EXP-2(a): Contracts of similar size and nature" for bidder qualification. While filling the form, if contract value is in other currency then it should be converted to USD and the exchange rates will be as on date of award of that particular contract. Kindly confirm. If our above understanding is not correct, kindly provide the methodology for considering exchange rates. And also we request to provide the methodology for considering exchange rates for converting annual turnover and current contract commitments to USD.	Confirm
	Volume-I, Section 4: Bidding Forms; Page 4-27	Form EXP-2(a)	Contracts of similar size and nature		The methodology will be adopted same as above whereas the exchange rate is determined based on the rate applicable for the particular fiscal year ending.
3	Volume-I, Section 7. General Conditions Page 7-10	GCC 10	Employer's Responsibilities	We understand from the said clause that land for site office shall be provided by the employer to the contractor free of cost. Kindly confirm.	Please refer clause GCC 10.
4	Volume-I, Section 7. General Conditions Page 7-9	GCC 9	Contractor's Responsibilities	For the water and electricity for construction works, we request you to kindly confirm whether Water and Power for construction can be made available. Further we request you to kindly share the existing rates/tariffs for the same.	Please refer clause-4.6, Chapter-1 of VOLUME II(B) of III for construction water. It will be the full responsibility of the contractor to arrange the Water and electricity supply during the construction phase. For the rates/tariff bidder may visit the authorized agency.
5	Volume-I, Section 7. General Conditions Page 7-48	GCC 39.2	Changes Originating from the Employer 39.2.5	From the said clause we understand that if there is change of more than +/- 15% in the quantities of any item with respect to tender quantity then unit rates for those items shall be mutually decided between contractor and employer. Kindly confirm.	Please refer clause SCC 39.4, which is amply clear

Clarification 1					
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6	Volume-I, Section 8: Special Conditions of Contract (SCC); Page 8-5	GCC 14	Taxes and Duties GCC 14.4	We request you to confirm the applicable rate of TDS as per the law of Nepal on present day	Please refer clause GCC 14.4, which is amply clear
7	Volume-I, Section 9: Contract Forms Page 9-11	Appendix 2	Price Adjustment	We understand that price adjustment is not applicable However, as per tender specifications there is requirement of Transformers, Tower part and stringing conductor. We would like to bring to your kind attention that Transformers, Tower parts and Stringing conductor shall be adjusted with price variation formula since all have mainly Metals in their construction. We request NEA to kindly include and provide the price adjustment formula for these items as is being done by NEA in other contracts such as PMD/EGMP/DRTLSS-077/78-01	Provision of Bidding Document remains unchanged
8	Volume-I, Section 9: Contract Forms Page 9-12	Appendix 3	Insurance Requirements…….	We understand that all the insurances mentioned in the tender clause can be purchased from any reputed Insurance company. Kindly Confirm.	Please refer Appendix 3 and GC clause 34
9	Volume-I, Section 9. Contracts Forms Page 9-10	Appendix 1	Terms and Procedures of Payment	As per the payment procedures Foreign Currency payment shall be made through Letter of Credit (L/C). All the charges for establishment and operations of letter of credit shall be to NEA's account. Please confirm.	NEA shall bear the necessary charge for L/C opened by NEA.
10	General			We understand the land for construction is already acquired by NEA and NEA will provide contractor encumbrance free land during award of contract. Any disputes arising against land acquisition of land provided by NEA during construction of works will be taken care by NEA. Kindly confirm.	Land for substation has been acquired by NEA and same shall be handed over to contractor after award of Contract. Whereas the Land required for Transmission line tower pad shall be acquired after finalization of detail survey and tower spotting.
11	General			If the lockdown is imposed due to any epidemic/pandemic situation in employer's country or contractor's country, in such cases whether contractor is eligible to get (i) a time extension to complete the works and (ii) reimbursement to cost implication incurring due to that?	Please refer clause GCC 37 & GCC 40, which is amply clear
12	General			Kindly provide the Soil Electrical Resistivity Parameters / Plot Size and ERT Data for the proposed Stations	In case of Tumlingtar, these data shall be Provided to the Successful bidder. For Sitalpati, it is in the scope of Contractor.
13	General			Kindly confirm the incoming line availability for commissioning of new substations. Also, If commissioning of substations is delayed due to factors which are not attributable to contractor, Kindly confirm whether Taking over (TOC) and DLP can start within next 3 months of completion of facilities.	Confirm. Please refer GCC clause 24 & 25.

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
14	Volume I, Section 3-Evaluation and Qualification Criteria	2.7	Manufacturers/Subcontractors	As per the referred clause GIS and transformer manufacturers should have carried out the complete type test as per IEC in STL accredited laboratory. In this regard, we would like to inform that many GIS and Transformer manufacturers are possessing the inspection reports of type test of GIS and Transformer certified by STL members/ authorities. We request you to accept the inspection reports of STL accredited members since both are equal. Kindly confirm	Provision of Bidding Document remains unchanged. Your request is not acceptable.
15	Volume I, Section 3-Evaluation and Qualification Criteria	2.7; s.n. (9)	Gas Insulated Switchgear	(iv) Must have successfully carried out the complete type test as per IEC in Short-Circuit Testing Liaison (STL) – Accredited Laboratory on 220 kV voltage class GIS Switchgears (Circuit Breaker, Disconnectors, Grounding Switches, Instrument Transformers, SF6/Air & Oil Bushing etc;). We request that type test reports of similar/higher rating may be accepted as per relevant standards	Provision of Bidding Document remains unchanged
16	Volume-I, Section 9. Contracts Forms	Appendix 1	Terms and Procedures of Payment	As our performance bank guarantee is being held up to end of DLP period, we request that our final 5% retention may be released upon operational acceptance as is being done in all other NEA international Competitive Bids.	Provision of Bidding Document remains unchanged
17	Existing Earthen House on Site			We have observed that there is an existing earthen house structure at Sitalpati. We understand that dismantling of the same for hindrance free site access is in the scope of NEA. If it is in bidder, we understand that permissions and clearances for dismantling the same is in NEA scope. Kindly confirm our understanding	Dismantling and clearances of any existing Structures, trees, bushes etc. are in the scope of Contractor as per VOLUME II(B) OF III, CHAPTER - 16, Clause No. 34. Confirm.
18	Schedule No.1B, Part-A, Item No.4.1 VOLUME II(B) OF III, CHAPTER - 1, Clause No. 6.3, fault levels			As per referred item, STC for 132kV isolator is given as 31.5kA for 3 sec. However as per clause-6.3 of Chapter-1, the same is given as 31.5kA for 1 sec. Please clarify the actual STC and duration to be considered for 132kV system.	Please refer clause-6.3, Chapter-1 of VOLUME II(B) OF III
19	220/132/33/11kV Single Line Diagram VOLUME II(B) OF III, CHAPTER - 1, Clause No. 6.3, fault levels			As per referred SLD, STC for 33kV bus is indicated as 31.5kA. However as per clause-6.3 of Chapter-1, the same is given as 25kA for 3 sec. Please clarify the actual STC and duration to be considered for 33kV system.	Please refer clause-6.3, Chapter-1 of VOLUME II(B) OF III
20	Schedule No.1B, Part-B	Item No.11.1		As per the referred line item we understand that requirement is for AIS instead of GIS. Please confirm.	Confirm

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21	VOLUME II(B) OF III, CHAPTER - 1	Clause No. 4.1	I. 245 KV GIS System, A, (b)	As per referred clause, it is mentioned that "Three Nos. 1-phase, inductive potential transformers, complete with isolator switch for each bus". We presume manual type disconnecting switches are acceptable for proposed bus VTs. Please confirm.	As per Technical Specification
22	VOLUME II(B) OF III, CHAPTER - 5		220/132kV Transformer	As per referred clause, SLD and Layout we understand that 220/132kV transformers are auto transformer with Vector group of **YNa0**. However as per layout (Drg. NO. NEA/SITALPATI-GIS/SS/LAYOUT/02) 220kV and 132kV neutral bus are indicated. Please check and clarify the actual requirement.	Please refer Annexure A, Sr. No. 1 of Chapter 5
23	Electrical Layout NEA/SITALPATI-GIS/SS/LAYOUT/02			Please furnish the section layouts as indicated in layout.	The optimization of Layout of switchyard is in the scope of successful Bidder
24	Electrical Layout NEA/SITALPATI-GIS/SS/LAYOUT/02			As per layout, we understand that stringing between 220kV SF6 Bushing to the 132kV side gantries. However towers on 220kV side are not indicated. Please check and issue suitable amendments.	The layout given is for tender purpose only. The actual requirement shall be decided during detail design engineering.
25	VOLUME II(B) OF III, CHAPTER - 1, Clause No. V			As per referred clause, we understand that tertiary loading is required for the 220/132kV Transformer. However as per electrical layout and Bid price schedule, there is no separate line item is available for the tertiary loading. Please check and clarify the actual requirement and inform the vector group accordingly.	The successful bidder may do the necessary arrangement for the transformer delta formation in his own cost. Tertiary Loading is not required.
26	Schedule No.1B, Part-A, Item No.4.1 v,vi and 4.2,iv			Please clarify the requirement for the following items. a) 132kV Single pole isolator (1250A)- 7 Nos (as per actual requirement 6Nos are required for 132kV Bus). b) 132kV Single pole isolator with earth switch (1250A)- 9 Nos (as per actual requirement 8Nos are required for 132kV Bus). c) 33kV single pole Isolator (800A)- 2 Nos (This is required for neutral bus formation) Please confirm weather bidder understanding is correct for above items.	adhere to the price schedule. However, the actual requirement shall be decided during detail design engineering.
27	Electrical Layout NEA/SITALPATI-GIS/SS/LAYOUT/02			As per referred layout, cables are used for 220kV & 132kV bus. However there is no line item is indicated in Bid price schedule. Please check the actual requirement and issue suitable amendments.	Cables are not used for 220kV & 132kV bus. All the connections are through bus duct & overhead only. The layout given is tentative and for tender purpose only. The design of layout is in the scope of Contractor and shall be done during detail engineering.

Clarification 1					
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28	VOLUME II(B) OF III, CHAPTER - 1	Clause No. 4.1, D, f, ICT Bay		As per referred clause it is given as "Three nos. 1-phase, individual operated safety grounding switches complete with manual and motor driven operating mechanisms" However as per SLD, we understand that **Six no of 1-phase, individual operated safety grounding switches** are required for auxiliary bus, 3 Nos at T-junction and 3 Nos at Transformer side isolator. Please check and arrange amendments suitably.	adhere to the clause 4.1, D (f) of Chapter 1 Volume II(B), however the actual requirement shall be decided during detail design engineering.
29	VOLUME II(B) OF III, CHAPTER - 1	Clause No. 4.1, D, g, ICT Bay		As per referred clause it is given as "Three nos.1-phase, individual pole operated, isolator switches, complete with manual and motor driven operating mechanisms for switching of Spare ICT through 220kV Auxiliary bus. The isolator must meet the operational requirement in terms of insulation withstand requirement for connecting the same to auxiliary bus" However as per SLD, we understand that **One no of 1-phases, individual operated safety grounding switches** is also required for auxiliary bus grounding. Please check and include the same in the bay description under PSR.	Yes, your understanding is correct. As per SLD, One no of 1-phases, individual operated safety grounding switches is required which is deemed to be included in the price schedule "sr no. 2.5: 245kV, SF6 GIS Auxiliary Bus Module as per section project to connect spare unit of Transformer".
30	VOLUME II(B) OF III, CHAPTER - 1	Clause No. 4.1, III, f, 11kV Switchgear		As per referred clause, feeder side earth switch is not mentioned for 11kV incomer bay. However, the same is mentioned for outgoing 11kV bays.. Please check and clarify the requirement for 11kV incomer bays.	Feeder side earth switch is not required for 11 kV incomer bay
31	VOLUME II(B) OF III, CHAPTER - 1	Clause No. 13.3, SCADA System		As per referred clause, it is mentioned as "The 220kV bays under present scope at Tumlingtar substations shall be integrated by the contractor into existing SCADA system of Siemens installed at Master Station i.e. Nepal Electricity Authority Load Dispatch Centre (located in Siuchatar, Kathmandu). " In this regard, we presume, communication link to NEA LDC are already existing and the same is not in the scope of bidder. Please confirm. Further, we are not envisaging any other remote end station integrations except integration works at NEA LDC. Please confirm.	Communication link from Tumlingtar Substation to NEA LDC are already existing. Please refer the clause 1.2, Annexure-II, Chapert-1 of Volume II(B) for the detail scope of works of contract.

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32	VOLUME II(B) OF III, CHAPTER - 1	Clause No. 13.2		As per referred clause, it is mentioned as "The bidder shall be responsible for safety of human and equipment during the working. It will be the responsibility of the Contractor to co-ordinate and obtain Electrical Inspector's clearance before commissioning. Any additional items, modification due to observation of such statutory authorities shall be provided by the Contractor at no extra cost to the Owner." However, as per BPS, we understand that most of the items are paid under unit rate and all drawings are fully verified and approved by NEA before converting into construction. Hence, we request NEA to accept that, any additional items, modification due to observation of statutory authorities shall be mutually discussed during detail engineering with price implications.	It is under the scope of Successful bidder to comply with his own cost.
33	VOLUME II(B) OF III, CHAPTER - 1	Clause No. 13.18, Energy Meter		As per referred clause, it is mentioned as *"One number each Energy meter for the record and revenue purpose is to be provided for each 220 kV, 132 kV, 33 kV bays and 12 kV Switchgears (Bus coupler bays to be excluded) at Sitalpati substation under present scope of contract, meeting the requirement as specified at Annexure – III"* In this regard, kindly clarify/confirm the following: 1) As there is no separate line item for dedicated metering CT's & PT's, we are not envisaging the same in our scope of supply. 2) We presume only one meter (Main meter) shall be provided. We are not envisaging any check & stand by meters in present scope of works. 3) We understand that, proposed meters shall be installed in respective CRP panels only. We are not envisaging dedicated Metering panels in present scope of supply.	confirm
34	VOLUME II(B) OF III, CHAPTER - 15	Clause No. 2.8, a.		As per referred clause, it is mentioned as "All gantry structures shall be designed ..... short circuit forces shall be calculated considering a fault level of 40.0 kA for 220kV, 31.5KA for 132kV and 25KA for 33kV or as applicable. Relevant British standard Codes (BS Codes) / equivalent International Standards. May be followed for evaluation of short circuit forces." As it is difficult to arrive at exact value of Stiffness norm for each voltage level and there is no proper guideline to decide the same, we request you to accept the value of Stiffness norm alone as per IEC:865 (1993) standard. Please confirm.	As per Technical Specification & latest relevant international standard.

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35	VOLUME II(B) OF III, CHAPTER - 11	Clause No. 18.8, 33.1 (Line Protection Panels)		As per Cl.no 18.8 of chapter-11, it is mentioned as follows: Main-I: Numerical distance protection scheme Main-II: Numerical distance protection scheme of a make different from that of Main –I Further, as per Cl. No. 33.1 of chapter-11, it is mentioned as "In a substation where 220 KV lines are under the scope of the contract, bidder is required to give identical Main-1 and Main-2 distance protection schemes for all voltage levels." As above clauses are contradicting with each other, please confirm the actual requirement.	adhere to the technical specifications. As per Clause 33.1, Identical is meaning to Characteristics of the relays.
36	VOLUME III OF III, Bid price schedule No. 1B,	Item No. 19		We understand that the approach road lighting are not required under the scope of this package. Please confirm. If required, please add separate line item in the BPS.	adhere to the price schedule.
37	VOLUME II(B) OF III, CHAPTER - 9, Lighting System			In annexure-I of lighting specification, conventional type fixtures are specified for both indoor & outdoor illumination. As conventional type fittings are becoming obsolete now-a-days, we request NEA to amend the specification with LED light fixtures. Please confirm acceptance.	As per Technical Specification. Shall be decided during detail design engineering.
38	VOLUME II(B) OF III, CHAPTER - 8, 630kVA Transformer			The percentage impedance for both 630kVA LT transformers are mentioned in the specification is 0.05%. We understand that the it shall be read as 5%. Please confirm. Further, kindly specify the efficiency level & losses for the 630kVA LT transformer.	Confirm Shall be decided during detail design engineering
39	VOLUME II(B) OF III, CHAPTER - 17, CONTROL, RELAY & PROTECTION PANELS			As per referred clauses, we understand that, Control & Protection requirements for 220/132kV transformer shall be considered as per Clause No 33.b & Control & Protection requirements for 132/33kV transformer shall be considered as per Clause No 33.d. Please confirm.	As per Technical Specification
40	VOLUME II(B) OF III, CHAPTER - 11, clause 33.b, 33.d & 33.e, Transformer differential protection			We understand the various protection functions as mentioned in the referred clauses can be clubbed under two Main protection relays (Group-I & II), as mentioned under clause-21. Please confirm.	As per Technical Specification
41	VOLUME II(B) OF III, CHAPTER - 1, Clause 1.2, PLCC			As there is no specific requirement called for and there is no Line item available for PLCC in BPS, We are not envisaging PLCC system in bidder's scope. Please confirm	Confirm

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S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
42	VOLUME II(B) OF III, CHAPTER - 3, Clause 1.4, Sl.No.8, GIS			As per referred clause of technical specification, the ambient temperature is indicated as 50 Deg. C. As GIS modules are type tested as per IEC, we request NEA to accept 40Deg. C design ambient temperature inline with IEC for 220kV GIS. Please confirm acceptance.	Please read the ambient temperature as 50 Deg. C
43	VOLUME II(B) OF III, CHAPTER - 5, Technical particulars for 33/11kV, 6/8 MVA, 3 ph Transformer			Kindly furnish the technical parameters for 33/11kV, 6/8 MVA, 3 ph Transformer,	Please refer Annexure A, Sr. No. 3 of Chapter 5
44	VOLUME II(B) OF III, CHAPTER - 7, 11kV SWGR, Numerical Protection Relay			We have considered only overcurrent and earth fault protection relay for all the bays. If any specific protection relays are required, please clarify the actual requirement.	Shall be decided during detail design engineering
45	VOLUME II(B) OF III, CHAPTER - 3, GIS Switchgear, Clause 25.2, On site testing			For voltage class up to 245kV, Partial discharge Test at site is not envisaged. Please confirm acceptance.	As per Technical Specification
46	VOLUME II(B) OF III, CHAPTER - 3, GIS Switchgear	4.3		The section barrier or support insulators are tested for partial discharge according to IEC 62271-203 & IEC 62271-, please confirm.	As per Technical Specification
47	VOLUME II(B) OF III, CHAPTER - 3, GIS Switchgear	Clause 4.5, Internal Arc		As per referred clause, it is mentioned as *"The material and thickness of the enclosures shall be such as to withstand an internal flash over without burn through for a period of 300 ms at rated short time withstand current."* However, the burn through shall be as per the below table of IEC 62271-203. We request NEA to accept the internal arc withstand requirements as stipulated in IEC. Please confirm acceptance.	As per Technical Specification
48	VOLUME II(B) OF III, CHAPTER - 3, GIS Switchgear, Clause 4.25, Ladders			From the referred clause, the ladders and walkways shall be provided wherever necessary for access to the equipment is mentioned. However, we propose provision of Mobile Ladders for access to operating mechanisms and no walkways are necessary for proposed Layout. Please accept.	As per Technical Specification
49	VOLUME II(B) OF III, CHAPTER - 3, GIS Switchgear, Clause 4.35, Pressure vessel requirements			As per the referred clause, "Each enclosure has to be tested as a routine test at 1.5 times the design pressure for one minute". However, as per IEC 62771-203,the standard test pressure shall be 1.3 times the design pressure for welded aluminium and steel enclosure. Please confirm acceptance.	As per Technical Specification

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50	VOLUME II(B) OF III, CHAPTER - 3, GIS Switchgear, Clause 4.37, UHF sensors for PD detection			Number of UHF sensors & the location of UHF sensors shall be as per manufacturer's recommendations. Please note that the locations of sensors shall be decided during detailed engineering to achieve the desired sensitivity & the same will be reflected on the drawings which will be submitted for approval. No change on the same recommended at site. Please confirm acceptance.	Shall be decided during detail design engineering
51	VOLUME II(B) OF III, CHAPTER - 3, GIS Switchgear, Clause 7.2, Safety Grounding Switches			As per GIS Manufacturer standard Type Tested Design, disconnectors and the safety grounding switches are in separate modules in GIS design and shall have only electrical inter-locks between them. Please Confirm acceptance.	As per Technical Specification
52	VOLUME II(B) OF III, CHAPTER - 3, GIS Switchgear, Clause 22			Shock indicators shall be provided only for VTs being a sensitive equipment's. No electronic impact recorders are necessary for Circuit Breaker. Please accept the same.	As per Technical Specification
53	VOLUME II(B) OF III, CHAPTER - 3, GIS Switchgear, Clause 7.13			We wish to inform you that the ground switches can carry 100A DC, only for measuring Contact resistance. It shall not carry 100A continuously. Please confirm.	As per Technical Specification
54	VOLUME II(B) OF III, CHAPTER - 2, Clause No. 9.2.iii)			As per IEC Standard, multiple Chopped Impulse Test (For CT) is not applicable to 132/245kV GIS. Please confirm acceptance.	As per Technical Specification
55	VOLUME II(B) OF III, CHAPTER - 1, PSR, Clause-4.1- XI			As per the referred clause, it is mentioned that complete fire protection system for outdoor equipment's / Transformers shall be provided. In this regard, please clarify the type of fire protection system (HVWS or NIFPS) that need to be provide for the transformers.	The referred clause is amply clear. Please go through the referred clause and Bid price schedule.
56	Section 1 –Project Specific Requirement, Clause-2			As per referred clause it is given as "220kV (GIS)/132/33/11 kV AIS Substation in Sitalpati (Sankhuwasabha District) and **3 nos.** of 220kV line bays at Tumlingtar Substation have been included". However as per scope of works we understand that 2 no of 220kV lines under present scope of work. Please clarify the actual requirement.	2 nos. of 220 kV line bays are under present scope of work. Refer Chapter-1: PSR of Volume II(B)
57	Remote end relay details of Tumlingtar substation			Please specify the make & model number of existing remote end line protection relay (at Tumlingtar substation) for Sitalapati - Tumlingtar line.	Shall be provided to the successful bidder.
58	Section-6,Chapter-2 Instrument transformers, Standards			The standard IEC 60044 (all parts) as mentioned in the referred clause of technical specification has been withdrawn. In this regard we request NEA to amend the clause with latest IEC standard i.e. IEC 61869.	For Instrument Transformer, please refer IEC 61869
59	Technical specification for Fiber optic based communication equipment, Clause- 1.1-Scope			The List of communication equipment as mentioned in the referred appendix is contradicting with the requirements mentioned in BPS. In this regard, we understand that the requirements as mentioned under BPS shall be followed. Please confirm whether bidder's understanding is in order.	Please refer the BPS. However, the actual requirement shall be decided during detail design engineering.

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60	VOLUME II(B) OF III, CHAPTER - 5 Technical specification for transformers, Cl. 3.12. (i), Dynamic Short Circuit Test requirements (for 220kV class transformers)			As per the referred clause *"Bidder / Manufacturer should have successfully carried out Dynamic Short Circuit test on any rating of 220kV or above voltage class transformer as on the originally scheduled date of bid opening and shall enclose the relevant test Report / Certificate along with bid"* However, as per Volume-1, Cl. 2.7, Sl. NO. 10 we understand that Manufacturer should have successfully carried out the Dynamic short circuit test on either same rating (voltage & MVA) (or) test carried out on **any rating** of respective rated voltages or above voltage class transformer. Hence, we interpret from the above two clauses that the test conducted on any MVA rating of 220kV & above voltage class is acceptable, provided it shall meet the similarity criteria as mentioned in IEC 600076-5. Please confirm.	Confirm
61	VOLUME II(B) OF III, CHAPTER - 5 Technical specification for transformers, Cl. 3.12. (ii), Dynamic Short Circuit Test requirements (for 132kV class transformers)			As per the referred clause *"Bidder / Manufacturer should have successfully carried out Dynamic Short Circuit test on any rating of 132kV or above voltage class transformer as on the originally scheduled date of bid opening and shall enclose the relevant test Report / Certificate along with bid"* However, as per Volume-1, Cl. 2.7, Sl. NO. 10, we understand that Manufacturer should have successfully carried out the Dynamic short circuit test on either same rating (voltage & MVA) (or) test carried out on **any rating** of respective rated voltages or above voltage class transformer. Hence, we interpret from the above two clauses that the test conducted on any MVA rating of 132kV & above voltage class is acceptable, provided it shall meet the similarity criteria as mentioned in IEC 600076-5. Please confirm.	Confirm
62	Volume-1, Cl. 2.7, Sl. NO. 10, Dynamic Short Circuit Test requirements (for 33kV class transformers)			As per referred clause, "Manufacturer should have successfully carried out the Dynamic short circuit test on either same rating (voltage & MVA) (or) test carried out on **any rating** of respective rated voltages or above voltage class transformer". Hence, we interpret from the above two clauses that the test conducted on any MVA rating of 33kV & above voltage class is acceptable, provided it shall meet the similarity criteria as mentioned in IEC 600076-5. Please confirm.	Confirm

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
63	VOLUME II(B) OF III, CHAPTER - 5 Clause-6.0, Technical parameters, Sl. No. 3.0, Technical particulars for 6/8MVA, 3-phase, 33/11kV transformer			As per the referred clause of technical specification the impedance value is specified as given below: a) 6/8MVA, 3-phase, 33/11kV transformer>6% We request NEA to furnish the exact value of percentage impedance in order to have uniform bidding conditions.	Percentage impedance for 6/8 MVA, 3 Phase, 33/11 kV transformer shall be 7.84%.
64	Chapter-13, 33kV Power cable			Kindly provide installation conditions such as: a) Installation in trench (in free air) / underground b) Depth of laying c) Type of formation : Trefoil / flat d) Ground temperature e) Ambient air temperature f) Soil Thermal resistivity g) Single circuit laying / double circuit laying	33 kV power Cable is not applicable
65	Chapter-13, 11kV Power cable			Kindly provide installation conditions such as: a) Installation in trench (in free air) / underground b) Depth of laying c) Type of formation : Trefoil / flat d) Ground temperature e) Ambient air temperature f) Soil Thermal resistivity g) Single circuit laying / double circuit laying	As per relevant International standard and shall be decided during detail design engineering.
66	Order of precedence			In case of contradiction between the datasheet enclosed as part of the respective technical specifications & Sections (Technical datasheet to be completed by the tenderer), please confirm the order of precedence.	The datasheet enclosed as part of the respective technical specifications are precedence to sections (Technical datasheet to be completed by the tenderer) unless otherwise there is a material deviation to affect the performance.
67	Order of precedence			In case of discrepancy between price schedule, project specification requirement (clause 15), individual technical specifications & Tender drawings, please clarify the order of precedence.	please refer Article 1.2 of Section 9-Contract forms, Volume I of III
68	Common for all stations			We understand that the scope of Earthing, DSLP, Lighting etc. are limited to the present scope of bays only. Please confirm.	Confirm. However, Future scope of work should be considered and design must meet the requirement of relevant standards for Earthing, DSLP, Lighting etc.
69	VOLUME II(B) OF III, General			As SAS based control & monitoring is required for all stations, we do not envisage conventional control panel with Mimics, switches etc. We shall offer Bay control units (BCU) which shall be able to perform the functions of control & monitoring. Please confirm acceptance.	adhere to the technical specification.
70	General			We understand that the scope of Earthing, Gravel spreading, DSLP, Lighting, VMS etc. are limited to the present scope of bays only. Please confirm.	Please refer sr. no. 68 above

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
71	Cable Sealing			As there is no specific requirement for Multi-diameter type flexible modular based sealing blocks for Cable sealing, we are not envisaging the same in our scope of supply. Please confirm.	adhere to the technical specification.
72	Soil resistivity			Please furnish the soil resistivity for the proposed site. We understand that there is no requirement of soil treatment in case of higher resistivity. If required, please include a separate line item for the same.	It is under the scope of Successful bidder. Soil treatment is not allowed.
73	MV cable laying			We presume that, MV cables to be laid in brick/ RCC cable trench on angles. Please confirm. Further, please furnish the indoor cable trench drawings.	It is the scope of Successful bidder and shall be decided during detail design engineering.
74	Battery & Charger, Aux Trafo, DG Set, Cables			We presume that the size / quantities of Battery & charger, Aux Trafo, DG Set, Cables provided in BPS are considering the requirements of the entire Substation. If the battery & Battery charger, Aux Trafo, DG Set, Cables size/ quantities is found to be higher during detail engineering, the same shall be payable at additional cost. Please Confirm.	Irrespective of the size and rating the successful bidder shall supply and install at the quoted rate.
75	Visual monitoring system			We do not envisage visual monitoring system for Tumlingtar substation. Please confirm	Confirm
76	Layout optimization			We presume indicated layouts are tentative and bidder can optimize the layout as per requirements. Please confirm.	Confirm
77	Shut down sequence			Please specify if any specific shut down sequence to be followed at Tumlingtar station.	Shall be decided during pre-commissioning/ commissioning stage
78	Bid price schedule			As there is no specific requirement mentioned in BPS & specification, we are not envisaging the following in our scope of works; Online insulating oil drying system, Fiber Optic Temperature Sensor System, Moisture analyser, Please confirm.	Confirm
79	Volume II(B)-Section VI: Employer's Requirements of Substations - Chapter - 1 (Project Specification Requirement) Clause no-4.1-XXIX(o)			Please provide the following details for the proposed substation, 1. Contour survey with spot level and boundary co-ordinates 2. Proposed Finished Ground levels 3. High Flood Level 4. Soil Investigation report in order to estimate the quantum of work.	1. It is in the scope of successful bidder 2. Shall be decided during detail design engineering 3. HFL will be provided during detail engineering if available 4. Not available

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
80	Volume II(B)-Section VI: Employer's Requirements of Substations - Chapter - 1 (Project Specification Requirement) Clause no-4.4			As per referred clause it is mentioned that, **"The conditions of roads, capacity of bridges, culverts etc. in the route shall also be assessed by the bidders. The scope of any necessary modification/extension/improvement to existing road, bridges, culverts etc. shall be included in the scope of the contractor and deem to be included in the contract price."**. However in price schedule there is no separate item for strengthening of approach road and bridge. Kindly include the item for the same in price schedule.	Please refer the last sentence of the referred clause.
81	Volume II(B)-Section VI: Employer's Requirements of Substations - Chapter - 1 (Project Specification Requirement) Clause no-4.1-XXIX(q)			As per referred clause, the underground water tank is in bidders scope. Whereas item for the same is not included in price schedule. We presume that, items (i.e: excavation, PCC, RCC,Reinforcement & etc.,) shall be paid in respective items of BPS. Please confirm.	Confirm
82	Volume II(B)-Section VI: Employer's Requirements of Substations - Chapter - 1 (Project Specification Requirement) Clause no-4.1-XXIX(d)			As per referred clause, **"Foundation for Bus duct supporting structures, GIS (SF6 to Air) bushing, lighting poles, panels and control cubicles of equipment wherever required."**in bidders scope. However in price schedule there is no item for busduct foundation. We presume that, items (i.e: excavation, PCC, RCC,Reinforcement & etc.,) shall be paid in respective items of BPS. Please confirm.	Confirm
83	Volume II(B)-Section VI: Employer's Requirements of Substations - Chapter - 1 (Project Specification Requirement) Clause no-4.1-XXIX(o)			As per referred clause, site levelling is in bidder scope. Please clarify, whether the site levelling is to be done only in present + future bays of 220/132/33/11kV area and the remaining untouched area & 400kV Area within property line (i.e; boundary wall) to be left as it is. (or) The entire site area within the property line to be levelled.	Site levelling shall be done within the entire site area within the property line.
84	Volume II(B)-Section VI: Employer's Requirements of Substations - Chapter - 23 - Drawings NEA/SITALPATI-GIS/SS/LAYOUT/02			As per provided layout, Plot is divided by line named " Below this line is the present substation scope". We presume that, Road provided from entrance to 220kV switchyard (i.e, road lying on 400kV Area) & approach road are not in bidder scope. Kindly confirm.	The purpose to show Plot divided by line named "below this line is the present substation scope" is to clear the 220 kV, 132 kV, 33 kV & 11kV switchyard zone only. The access road and the road inside the switchyard are in the scope of contractor which shall be decided during detail design engineering.

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
85	Volume II(B)-Section VI: Employer's Requirements of Substations - Chapter - 16 - Civil works Clause no-5 (a)			As per referred clause,**"Catch drains shall be provided to arrest any surface runoff entering the substation. The size of catch drain shall be decided based on catchment area and one hour rain fall intensity of 25 years return period."** However in price schedule there is no item for catch drain. Kindly include the item for the same	Any type of drain may fall under sr. no. 18 of Schedule No.4B.2, Part-A, Volume III of III
86	Volume II(B)-Section VI: Employer's Requirements of Substations - Chapter - 1 (Project Specification Requirement) General			we understand that, there are many trees in the proposed substation area. We trust that, tree cutting/Tree replantation is not in bidder scope. Please confirm. If in bidder scope, We trust that, necessary permission from Govt Authority/forest dept. shall be obtained by NEA. Also add the item for tree cutting/Tree replantation in price schedule.	Please refer sr. no. 17 above
87	Volume II(B)-Section VI: Employer's Requirements of Substations - Chapter - 1 (Project Specification Requirement) General			We presume that the pile foundation, Rubble soling, Ground Improvement methods or any additional foundation protection works is not envisaged for the proposed Substation. If required the same shall be paid in additional item with mutually agreed rates. Please confirm.	Shall be decided during detail design engineering
88	Volume II(B)-Section VI: Employer's Requirements of Substations - Chapter - 23 - Drawings NEA/SITALPATI-GIS/SS/TOPOMAP/03			In the referred layout, it has observed that water stream is passing through proposed SS. We trust that it shall be completely filled with available earth up to the proposed FGL and diversion of water stream is not in bidder scope. Please confirm. However if diversion is required, kindly suggest suitable way for diversion and include the required items in BPS.	Confirm, however we recommend the bidders to visit the site and assess by yourself. Natural stream is passing through the periphery of substation so if diversion is required, it can be diverted in to that. Separate item is not required in BPS. The price shall be deemed to be included under site development work.
89	Volume II(B)-Section VI: Employer's Requirements of Substations - Chapter - 1 (Project Specification Requirement) Clause no-4.1-XXIX(o)			As per referred clause, it is mentioned that **"The substation area shall be developed in terraces at single or multi levels by cutting and filling"**. Please specify the proposed Finished Ground Level for Proposed Substation area ,future area & 400kV Area. In order to estimate the founding depth.	Shall be decided during detail design engineering
90	Volume II(B)-Section VI: Employer's Requirements of Substations - Chapter - 16 - Civil works Clause no-18.9 & 20.2			As per clause 18.9, Building FFL proposed at 750mm above FGL & as per clause 20.2 Building FFL proposed at 600mm above FGL. Kindly confirm which is to be followed.	Shall be decided during detail design engineering

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
91	Volume II(B)-Section VI: Employer's Requirements of Substations - Chapter -16 - Civil works Clause no-35 & Sch. No. 4B.2-Sl. No. 25			As per referred clause 35, **"The scope of work shall include landscaping of the whole substation area within its boundary wall to give a pleasant appearance to substation and its surrounding as well as carrying out bio engineering works for slope stabilization."** As per BPS, Bio engineering work restricted to slope protection on filling earth only. Kindly confirm which is to be followed.	Please follow the BPS
92	Volume II(B)-Section VI: Employer's Requirements of Substations - Chapter -16 - Civil works Clause no-37.4.3			As per referred clause, Plum concrete allowed for towers,eqpt. Structure foundations coming on filled-up soil. Whether the building coming on filled-up soil also can be claimed against the price schedule item **Schedule No. 4B.2-Sl. No. 2**.	Confirm
93	Volume II(B)-Section VI: Employer's Requirements of Substations - Chapter -16 - Civil works Clause no-8.11			as per referred clause, stone spreading to be done over 75mm thick PCC 1:5:10. However, no item available in Schedule no. 4B.2 - Part - B . Kindly include the same under tumlingtar SS price schedule.	Please refer Clause no 4.2, VI-Civil works sr. no (iii) of Volume II(B)-Section VI: Employer's Requirements of Substations - Chapter -1 (Project Specification Requirement), which is amply clear the requirement
94	General		Coordinates of Proposed Site	Please provide the coordinates of proposed site for better understanding and estimation purpose.	The coordinate of Transmission Line alignment is provided in Section IV- Chapter 2 of Volume II(A). However, detail survey of TL and contour survey of Substation is under the scope of Successful bidder.
95	Schedule No. 4B & 4B-2_PART-A, PART-B		Dismantling/Shifting Work	Schedule No. 4B & 4B-2_PART-A does not cover any line item for dismantling/shifting work, We understand that during detailed engineering if any Dismantling/Shifting works encountered the successful Bidder will be paid amendment for the same work.	The understanding is not correct, it is under the scope of contractor. Any Dismantling/Shifting works encountered shall be deemed to be included in price schedule.
96	Soil Report		Geo Technical report	Please provide the geo technical report(If available) of the subject site for better estimation.	Please refer sr.no. 12 & 79 above
97	Schedule No. 4B & 4B-2_PART-A, PART-B		Provided quantity of Civil Works	We understand that the quanatity provided in Schedule No. 4B & 4B-2_PART-A, Civil works is tentative and Bidders may ask amendment for the same if any quantity increases during detailed engineering, Please confirm our understanding.	Confirm, the final quantity may be increased/decreased after detail design engineering.
98	Schedule No. 4B & 4B-2_PART-A, PART-B		Approach road	Schedule No. 4B & 4B-2_PART-A does not cover any line item for Approach road to site, We understand that Approach road work is excluded from Bidder's scope, Please confirm our understanding.	Please refer sr.no. 13 of Schedule No. 4B & 4B-2_PART-A, which include all the road requirements
99	General		Civil Works	We trust that, the diversion of the water stream or nalla(If any) inside proposed area is not in bidder scope. Please confirm.	Please refer sr.no. 88 above
100	Schedule No. 4B & 4B-2_PART-A, PART-B		Exclusions	We understand that Boundary Wall and Staff Quarter is excluded from Bidder's scope of Civil Works, Please confirm our understanding.	Confirm

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
101	General		Civil Works	We trust that, the rain water harvesting for the proposed site Sitalpati & Tumlingtar is not included in bidders scope. If it is required, kindly add a separate item for the same in the BPS.	Not required
102	General		Civil Works	If earth fill depths are high, the foundations can be rested on filled up soil after ensuring proposer compaction formed by plate load test or the applicable Geo-tech tests, Kindly confirm.	Shall be decided during detail design engineering
103	Schedule No. 4B & 4B-2_PART-A, PART-B		Civil Works	We understand that site levelling is in bidder scope. Please clarify, whether the site levelling is to be done only in present + future bays of 220/132/33kV area and the remaining untouched area within property line (i.e; boundary wall) to be left as it is, (or) The entire site area within the property line to be levelled, Please confirm.	Please Refer sr.no. 83 above
104	Schedule No. 4B & 4B-2_PART-A, PART-B		Civil Works	As per mode of measurement for structure such as Structural steel, fasteners and foundation bolts shall be measured under one head in Metric Tonne. However in price schedule the towers, equipment structures shall be paid in Lot/ Nos basis. Please clarify the payment for structures.	Please refer the BPS which is amply clear
105	Schedule No. 4B & 4B-2_PART-A, PART-B		Civil Works	Bidder request to provide the drain layout. b) We understand that outfall point for drain shall be within plot premises or near to boundary.Please confirm.	Bidders are requested to visit the site and assess the outfall point.
106	Schedule No. 4B & 4B-2_PART-A, PART-B		Civil Works	a. Bidder request to specifically mention where gabion wall is required in the layout and Also provide the reason for considering the same the project. b. We understand that payment for gabion wall required in station shall be paid as per line item mentioned, Please confirm.	a. The requirement of gabion wall shall be decided during detail design engineering b. Confirm
107	Neutral CT			As per BOQ there is no line item for Outdoor NCT for 53.33/66.67 MVA, 220 /132 kV Single Phase Power Transformer Neutral formation. So we assume that if Outdoor NCT is required for Neutral work at the time of execution the same. Please amend the BOQ.	Please refer BPS sr. no. 1.1 of Schedule No.1B, Part-A, Volume III of III
108	Neutral formation for 220/132 KV Transformers.			Neutral formation shall be arranged through Al Tube or ACSR Conductor or XLPE Cable, Please confirm your requirement.	Neutral formation shall be arranged through Al Tube
109	Delta formation for 220/132 KV Transformers.			Delta formation shall be arranged through Al Tube or ACSR Conductor or XLPE Cable, Please confirm the requirement.	Refer sr.no. 25 above
110	LT Transformer			you are requested to please confirm regarding the Level of IS 1180 (Level II or Level - III), as it is not mentioned in the attached BOQ/Spec. As per IS 1180 there are two losses LEVEL II & LEVEL III .Please confirm the losses to be considered.	Shall be decided during detail design engineering
111	Creepage			We presume the Min. Creepage is 25mm/kV of Substation. Please confirm	confirm

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
112	COMPOSITE LONG ROD INSULATOR		As an alternative to disc insulator/long rod porcelain, Bidder can also offer composite long rod insulators with suitable hardware.	As per referred clause in Switchyard erection we understand that Composite Silicone rubber Long Rod Insulator with suitable hardware can also offer for tension & Suspension. Hence we have consider Composite Silicone rubber Long Rod Insulator for tension & Suspension : please confirm	confirm
113			Tray	We presume Ladder type Tray for vertical runs only, while cabling in other area and horizontal laying for control room building/SPR/FFPH and switchyard shall be done on angles only in the trench, Please confirm	Confirm
114	Battery & B. Charger			We have consider Battery & Battery Charger capacity for 220/132/33/11kV Voltage level substation according to present scope only. We have not envisaged Battery & Battery Charger capacity for any future or existing voltage level (400kV). : please confirm.	Refer clarification no. 1, sr.no. 153 below
115	Relay setting			Please confirm the relay setting parameters to be furnished by NEA prior to commissioning/during detailed engineering of sub-station	It is under the scope of Successful bidder.
116	11kV Outdoor eqpt.		BOQ	Please specify the requirement of 11kV Outdoor equipments (Isolator-6set, DO fuse 18-nos, BPI-18Nos)	Adhere to the Bid Price Schedule
117	SAS and Busbar protection system			SAS and Busbar protection system shall be envisaged for present scope only. Please confirm.	Confirm, however SAS and Busbar protection system shall have compatibility and extendibility features with necessary spares/ports.
118	General / Tumlingtar - Substation			Kindly provide the details of existing Conductor type and configuration for 220kV substation & line termination. To consider similar type conductor.	Conductor used in Tumlingtar is ACSR Moose Conductor. The details shall be worked out during detail engineering.
119	General / Tumlingtar - Substation			Kindly Provide Existing Control Room Equipment Arrangements, existing earthmat layout and Indoor as well as Outdoor Cable Trench Layout. For placing the C&R Panel as per scope and for estimation of actual cable quantity inside the Control room building.	The details shall be provided to the successful bidder
120	General / Tumlingtar - Substation			We understand, existing cable trench is sufficient to accommodate the power cable and control cable for present bays.Kindly confirm.	Confirm
121	General / Tumlingtar - Substation			We understand that existing battery is sufficient to cater the DC requirement of present scope bay. Further, spare feeders are available in existing ACDB, DCDB, MLDB & ELDB for present scope of work. No any additional material & accessories required for the same. Please confirm	Confirm
122	General / Tumlingtar - Substation			We understand that any restoration work for damages made in existing drain and road during execution will be done by the bidder and same shall be paid in respective price schedule items. Please confirm.	Any damages made in existing drain and road during execution shall not be paid and successful bidder shall reconstruct the damages back to its original state in his own cost
123	General / Tumlingtar - Substation			We trust that no modification required in existing control room building for new panels. Please confirm.	Confirm
124	General / Tumlingtar - Substation			We understand that lightning protection, Main earthmat and illumination is not in present scope of work. Kindly confirm.	refer sr. no 4.2 of Chapter -1, Volume II (B) of III

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
125	General / Tumlingtar - Substation			There is no Telecom Equipment mentioned in BOQ, we understand that the same is not required kindly confirm.	Adhere to the Technical specification and sr. no. 11 of Schedule No.1B, Part-A, Volume III of III
126	General / Tumlingtar - Substation			We understand that VMS is not in present scope of work. Kindly confirm.	Confirm
127	General / Tumlingtar - Substation			CRP & SAS and Busbar Protection: We understand that existing System is adequate and compatible for present scope Bays. Kindly furnish the MAKE & Model of Existing SAS and Busbar System.	SAS - SIEMENS make (model shall be provided to the successful Bidder) Busbar system : SIEMENS make, Low Impedance centralized Busbar system
128	General/Transmission Line		Coordinates of TL Route	Please provide the coordinates of Transmission Line Route (google file) for better understanding and estimation purpose.	Refer sr. no. 94 above
129	General/Transmission Line		Tower Drawing / BOM with Extension	Kindly arrange to provide Tower Drawing / BOM for DA/DB/DC/DD/DE type Tower with Extensions for better clarity.	Shall be provided to the successful bidder
130	Scope of Work/Transmission Line		Clause No. 3.1.2(a), Section-1, Section-VI, Vol-II(A)	As per clause we understand design for Tower Type DA/DB/DC/DD/DE are not in Bidder's scope. Kindly confirm please.	Confirm, however it will be the responsibility of the contractor to verify the available design on his own cost.
131	Scope of Work/Transmission Line		Clause No. 3.1.2(b/c/d), Section-1, Section-VI, Vol-II(A)	As per clause we understand design for Truncated(Dwarf) Tower / Multi Circuit Tower / Special Tower are in Bidder's scope. Kindly confirm please.	Confirm
132	Price Schedule Part A (Transmission Line)		Sr. No. 1.1 of Schedule No. 1A & 2A	We understand provided weight for Transmission Line Tower / Tower Parts / BN etc. are galvanized weight. Kindly Confirm please.	The provided weight for Transmission Line Tower / Tower Parts / BN etc. are black weight only. Bidder shall quote their rate with galvanization and others as per Sr. No. 1.1 of Schedule No. 1A & 2A. Please refer clause 3.1.2 (o) of Section -1: Project specific requirement and clause 1.37-Paymnet of Section IV, chapter-1 of Volume II(A).
133	General/Transmission Line			Please confirm, line is passing through snow zone or non-snow zone ?	non-snow zone
135	Defect Liability / Clause No. 27 / Special condiction of Contract		The Defect Liability period shall be two (2) years from the date of Operational Acceptance. The critical components covered under the extended defect liability are GIS, Power/Autotransformers, Control relays panel, Substation Automation System (SAS) and Communication System and the period shall be Five (5) years.	Request you to reduce the Defect Liability period up-to two (2) years from the date of Operational Acceptance for all equipment. Please confirm.	Provision of bidding document remains unchanged
136	Appendix 1 - Terms and Procedures of Payment / Section 9 / Contract Form		Five percent (5%) of the total or pro rata upon completion of defect liability period.	Last payment shall be released against BG of equivalent amount after operational acceptance.Please confirm.	shall be as per bidding document

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
137	ITB 14.6 / Section 2 - Bid Data Sheet		The prices quoted by the Bidder "shall not be" subject to adjustment during the performance of the contract, it is the fixed price contract.	There many uncertainties in commodity prices. So request you to accept Price variation on all major commodity based items. Please confirm.	Provision of bidding document remains unchanged
138	Clause No. 30. b / GCC		Limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement.	Limitation of liability max. up-to 100% of the contract value. Please Confirm.	Provision of bidding document remains unchanged
139	ITB 34.1 / Section 2 of BDS		Margin of preference of 5% if applicable to the domestic bidders	Request to delete the clause.	Provision of bidding document remains unchanged
140	Short Circuit Report for Transformer		Short Circuit Report from STL approved laboratory for Transformer 53.33/66.67 MVA 220/132 KV, 24/30 MVA 132/33 KV and 6/8 MVA 33/11 KV within 10 Years.	SCT for higher size and higher voltage can be accepted by customer from any NABL accredited laboratory. Please confirm.	As per Bidding document
141	Short Circuit Report for GIS		Short Circuit Report from STL approved laboratory 220 KV for GIS within 10 Years.	SCT can be accepted by customer from any NABL accredited laboratory. Please confirm.	As per Bidding document
142	ITB 7.4 / Section 2 - Bid Data Sheet		A Pre-Bid meeting shall take place at the following date, time and place: Date: 18th February 2022 Time: 12:00 Noon. (Nepal Standard Time) Tumlingtar-Sitalpati 220 kV Transmission Line Project Transmission Directorate Nepal Electricity Authority Kharipati, Bhaktapur, Nepal Telephone: +977 1 6616891 The Venue may change in which case Employer will notify Electronically to all the bidders who purchased the Bidding document.	Request to arrange virtual pre-bid meeting.	Not accepted
143	ITB 7.1 / Section 2 - Bid Data Sheet		Time for request: Requests for clarification should be received by the Employer no later than 10 days prior to the deadline for submission of bids.	We are yet to get pre bid queries from manufacturers. We will submit those queries 10 days prior to the deadline for submission of bids.	Provision of bidding document remains unchanged

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
144	ITB 22.1 / Section 2 - Bid Data Sheet		The deadline for bid submission is: Date: 21st March 2022 Time: 12:00 Hrs (Noon) (Server time of PPMO) Note: No hard copy submission permitted.	We have already started working on this tender. We need some more time to complete the detail site survey and get clarity. So request you to extend the dead line for bid submission date by 4 Weeks' time from present bid submission date.	Request is not accepted
145		11.2	The Contract Price shall remain FIRM and shall not be subject to any escalation/Price Adjustment during the currency of the Contract. However, The Contract Price may be adjusted on account of variation of quantity in accordance with Clause 39 of GCC read in conjunction with SCC.	We request for inclusion of price adjustment formula in the contract	Provision of bidding document remains unchanged
146		2.4.2 Specific Construction Experience (b) Experience in Key Activities	have designed, supplied, installed, tested and commissioned at least one (1) 220kV or above Double Circuit Transmission Line having a route length of at least 12 km and the same should be in successful operation.	We request you to remove this requirement from Qualifications requirement	Provision of bidding document remains unchanged

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
147			Consortium Bids	tender documents does not clearly specify the role of consortium partners in JV / consortium bids, due to which there are chances of contract execution getting delayed / Payment held up due to lack of clarity in contract documents i.e. regarding the responsibility of Partners in Invoicing / Collection of Payments / Taxation etc. To avoid such ambiguities at the execution stage, we propose that the following clauses may be incorporated in the tender document. In case of award of tender to a Joint Venture or Consortium – The Partner In charge shall be allowed to Invoice on behalf of the Joint Venture Scope of Supplies and Services and receive payments directly. OR Each consortium partner should be able to raise Invoices for their respective scope (i.e. from Nepal and Outside Nepal, as the case may be) and can collect the payments in their respective accounts. LC shall be opened in the name of Partner In charge OR respective partners as per their scope of works. TDS certificate to be issued in the name of Partner Incharge OR respective partners so that the tax assessment is hassle free in consortium partner's home country as well.	Consortium is not allowed in this bid. Please refer ITB 4.1 (a) of Section -2: Bid Data Sheet of Volume I of III, which is amply clear, which only allows Joint venture partner . The form given in page 4-32, 4-34 and 4-37 of section -4 : Bidding forms of volume I of III are general form for JV and Consortium, The word consortium stand deleted from this clarification.
148	Volume-II (B)	Chapter-1 PSR, Clause-4.1 (III-b)	12 KV INDOOR VACUUM SYSTEM (12 kV XLPE cables, joining kits, accessories and associated gantry structures for the 12 kV line feeder bays to connect with the 11 kV indoor switchgear)	Location of 12kV Gantry structures (Dead end Pole) are not given in the tender layout (Chapter-23. Kindly share the locations of 12kV gantry structure for the 12 kV line Feeder.	Location of Deadend pole shall be decided during detail design engineering.
149	Volume-II (B)	Chapter-1 PSR, Clause-4.1 (V)	7X53.33/66.67 MVA, 220/132kV, 1-Phase Auto Transformer Bays	We understand that 220kV Auxiliary bus arrangement shall be within the GIS hall as auxiliary GIS Module. Please confirm the same.	Confirm
150	Volume-II (B)	Chapter-1 PSR, Clause-4.1 (VI)	2x24/30 MVA, 132/33kV, 3-Phase Power Transformer Bays	132kV Auxiliary bus for HV side of 132/33kV, 3-Ph Power Transformer is given in the tender layout (Chapter- 23). We understand that there is no requirement of 132kV Auxiliary bus for HV side of 132/33kV, 3-Ph Power Transformer. Please confirm our understanding is correct or not.	your understanding is correct.

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
151	Volume-II (B)	Chapter-1 PSR, Clause-4.1 (X)	Bus Bar Scheme	We understand that bus bar protection scheme is Distributed/Decentralised (Not duplicate) for 220kV as well as 132kV Bus bar. There is no separate bus bar protection panel for 33kV and 11kV switchyard. Please confirm the same.	Confirm
152	Volume-II (B)	Chapter-1 PSR, Clause-4.1 (XVI)	LT switchgear (AC/DC Distribution boards)	We understand that numbers of future bays for LT switchgear (AC/DC Distribution boards) shall be as per the refer clause-4.1 (XVI). Please confirm the same.	Confirm
153	Volume-II (B)	Chapter-1 PSR, Clause-4.1 (XVIII)	Battery and Battery Charger	We understand that capacity of Battery & Battery charger shall be considered for future bays which is mentioned in Chapter-1 PSR, Clause-4.1 (XVI). Please confirm the same.	Please refer clause 4.1 (XVI) of Chapter 1 PSR of Volume II(B), which is amply clear
154	Volume-II (B)	Chapter-1 PSR, Clause-4.1 (XVI)	Future Scope of work	Discrepancy is observed in Volume-II (B) document and drawing provided for 220/132/33kV Sitalpati Substation. In Volume-II (B), future bays (10 nos. Line Bay, 3 nos. Transformer bay at 400 kV level, 1 no. reactor; 8 nos. Line Bay, 4 nos. Transformer bay at 220 kV level; 8 nos. Line Bay, 1 no. Transformer bay a 132 kV level; 6 nos. Line Bay at 33 kV level, 4 nos. feeder for 11 kV bay) are given. However, in Layout drawing (Chapter-23),future bays (8 nos. Line Bay, 3 nos. Transformer bay at 400 kV level, 1 no. reactor; 4 nos. Line Bay, 2 nos. Transformer bay at 220 kV level; 6 nos. Line Bay, 0 no. Transformer bay a 132 kV level; 4 nos. Line Bay at 33 kV level, 0 nos. feeder for 11 kV bay) are given. Please confirm what is to be considered.	Please refer clause 9-ORDER OF PRECEDENCE OF DIFFERENT PARTS OF TECHNICAL SPECIFICATION, Chapter 1-PSR of Volume II (B)
155	Volume-II (B)	Chapter-1 PSR, Clause-4.1 (XXI)	Earthmat	We understand that Main earthmat shall be considered only for present scope of bays. Please confirm.	Refer clarification 1, sr no. 68 above
156	Volume-II (B)	Chapter-1 PSR, Clause-6.3	Fault level for 33kV Bus	Discrepancy is observed in Volume-II (B) document and drawing provided for 220/132/33kV Sitalpati Substation. In Volume-II (B), Fault level of 33kV Bus is given as 25kA. However, in SLD (Chapter-23) Fault level of 33kV Bus is given as 31.5kA. Please confirm what is to be considered.	Refer clarification 1, sr no. 19 above
157	Volume-II (B)	Chapter-23	Layout	Please share the dimensions and drawing for 132kV switchyard panel room, 33kV panel room and 11kV Indoor panel room building.	Shall be decided during detail design engineering
158	Volume-II (B)	Chapter-4	Outdoor Switchyard	Please share the capacitance value for 245kV and 145kV Capacitive Voltage Transformer (CVT).	Please refer chapter4- Outdoor switchgear of Volume II (B), which is amply clear
159	Volume-II (B)	Chapter-4	Outdoor Switchyard	Please share the protection class and burden for the 245kV, 145kV and 33kV Current Transformer (CT).	Please refer chapter4- Outdoor switchgear of Volume II (B), which is amply clear
160	Volume-II (B)	Chapter-4	Outdoor Switchyard	We understand that there is no need of control switching device applications for 245kV and 145kV GIS Circuit Breaker. Please confirm that our understanding is correct.	Adhere to the technical specification
161	Volume-II (B)	Chapter-4	Outdoor Switchyard	We understand that 132kV and 33kV Isolator shall be centre rotating double break isolator. Breaker. Please confirm that our understanding is correct.	Confirm
162	Volume-II (B)	Chapter-7	11kV Indoor Switchgear	We understand that protections class, burden and CT's ratio for the 11kV Current Transformer (CT) shall be as per given in Chapter-7.	Please refer chapter 1, Clause 4.1 (III)-12kV Indoor Vacuum System of Volume II (B)

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
163	Volume-II (B)	Chapter-7	11kV Indoor Switchgear	We understand that 11kV protection and control devices shall be mounted in respective switchgear of each 11kV bay. Separate Protection/Control Panel is not envisaged for the same.	your understanding is correct.
164	Volume-II (B)	Chapter-13	Battery and Battery Charger	We understand that Battery and Battery Charger shall be design for 3 hours backup at normal ambient temperature. Please confirm the same	As per Technical Specification
165	Volume-II (B)	Chapter-17	CONTROL, RELAY & PROTECTION PANELS	We understand that Main-1 and Main-2 relay shall be both Distance protection for Line bay. There is no need of Line Differential Protection. Please confirm the same	Both Distance Protection and Line Differential Protection are required. Please refer clause 18 of Chapter 17, Volume II (B).
166	Volume-II (B)	Chapter-17	CONTROL, RELAY & PROTECTION PANELS	We understand that there is no work in 220kV remote end Substation. Please confirm the same	Adhere to the technical specification
167	Volume-II (B)	Chapter-17	CONTROL, RELAY & PROTECTION PANELS	We understand 220kV and 132kV Bus Bar Protection shall be only for present scope of work. Please confirm the same	please refer sr no 117 above
168	Volume-II (B)	Clause-23	Drawing	In Tender SLD and layout future bays are shown which are required to be considered. Client to clarify whether we shall provide bus bar for future bays or we shall consider bus bars for present scope bays only.	Bus bar is required for present bays only
169	Volume-II (B)	Clause-23	Drawing	As per tender layout,structure arrangement pertaining with arrangement of bays are provided.Client to clear whether we shall consider the same structure arrangement for the present bays or we can propose the structure/bay arrangement as per our own considerations.	The drawings given is for tender purpose only. The actual requirements shall be decided during detail engineering.
170	Volume-III	Clause-1.2	Billing Price Schedule	We understand that there is no need of Transformer Monitoring System and DGA for 132/33kV Transformer. Please confirm that our understanding is correct.	adhere to the technical specification and Bid price schedule
171	Volume-III	-	Billing Price Schedule	CT ratio of 132kV and 33kV CT shall be as per given in the billing price schedule. Please confirm the same.	Confirm
172	General/Tumlingtar Substation	General	-	Please share the below details of existing Bus Bar Protection- 1.Please provide the details of 220kV BusBar scheme for existing substation. 2.Make and model of existing bus bar protection. 3.We understand that Busbar Protection Bay/Peripheral units are available at the site. Please confirm our understanding is correct or not at Tumlingtar.	1. Centralized Low impedance busbar protection scheme 2. Siemens make (7SS85 P1E233705) 3. refer clarification no. -1, sr. no 182
173	General	General	-	Soil resistivity value is not provided for earthmat sizing calculation. Kindly furnish the same for doing the earthing design calculations. Also, provide the existing Earthmat Layout.	It is in the scope of successful bidder for new substation. The existing earthmat layout shall be provided to the successful bidder.
174	General/Tumlingtar Substation	General	-	Please provide the details of existing DSLP.	Shall be provided to the successful bidder
175	General/Tumlingtar Substation	General	-	We understand that there is no extension work for Visual Monitoring System for Tumlingtar SS	confirm
176	General/Tumlingtar Substation	General	-	Please provide the existing SLD along with Layout.	Please refer drg no.NEA/Tumlingtar-AIS/SS/SLD/28 & NEA/Tumlingtar-AIS/SS/Layout/29 chapter 23 of volume II(B)

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
177	General/Tumlingtar Substation	General	-	We understand that there is no work to be done for FOTE system/Communication for existing substation. Please confirm.	Refer clarification 1, sr no. 125 above
178	General/Tumlingtar Substation	General	-	We understand that Augmentation of BCU/SAS for control and monitoring of Auxiliary system is not in the present scope of work. Please confirm the same.	refer technical specification and BPS
179	General/Tumlingtar Substation	General	-	Do we need to extend the Main Bus 1 & 2? Please Clarify.	Main bus 1 & 2 extension is not required for tumlingtar Substation.
180	General/Tumlingtar Substation	General	-	We understand that there are feeders in existing ACDB & DCDB to cater to the load requirements of new AC & DC panels for extension scope bays. Please confirm	Refer clarification 1, sr no. 121 above
181	General	General	-	We understand that existing battery is sufficient to cater the DC requirement of present scope bay. Kindly Confirm.	confirm
182	General	General	-	We understand that the required nos. of peripherals/ports for Bus Bar Integration are available. Please Confirm.	The peripherals/ports for Bus Bar protection are available. However the required configuration and integration are in the scope of successful bidder.
183	General	General	-	Please provide the existing Indoor and outdoor cable trench layout dwg	shall be provided to the successful bidder.
184	General	General	-	We understand that NRLDC (RSCC) on OPGW and PMU work integrations are not in the bidder scope.	LDC (RSCC) on OPGW and PMU integrations are in the scope of Successful bidder. The methodology shall be decided during detail design engineering. The price for the same shall be deemed to be included in the BPS sr. no. 11.1 of Schedule No.1B, Part-A, Volume III.
185	Volume-II	CHAPTER 3: clause 16	ELECTRIC OVERHEAD CRANE	We understand that Single Girder EOT Crane shall be provided for 220KV GIS Hall. Please confirm	Adhere to the technical specification
186	Volume-III	Bid Price Schedule 2B. 18, e & f	Smoke detection system in Control Room Building & Fire detection and Alarm System in Control Room Building-	Please note that Smoke Detection System is the part of Fire Detection & Alarm System. So, separate line item in Price Schedule is not required. Kindly revise the Price Schedule accordingly or Please elaborate/differentiate the items, which needs to be supplied under these two BPS clauses.	Adhere to the Bid Price Schedule
187	Volume-III	Bid Price Schedule 2B. 18, e & f	Smoke detection system in Control Room Building & Fire detection and Alarm System in Control Room Building-	Please clarify the type (Conventional or Addressable) of Fire Detection & Alarm System to be considered. From Technical Specification, we understand that, Conventional Type Fire Detection & Alarm System to be provided. Please confirm our understanding.	adhere to the technical specification and Bid price schedule
188	Volume-II	Chapter 5, Transformer, Clause 17 dd	NIFPS to be provided, if mentioned in BPS	BPS doesn't indicate NIFPS requirement, so we are not considering same in scope. Pls confirm.	confirm
189	Volume-II	Chapter 5, Transformer, Clause 23.3	Automatic high velocity or automatic medium velocity water spray type fire protection system	We have considered only HVWS system for Transformer. Pls confirm	confirm

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
190	Volume-II	CHAPTER 16: CIVIL WORKS, clause 33 MISCELLANEOUS REQUIREMENTS	33.2 All mild steel parts used in the firefighting water tank and underground water tank shall be hot-double dip galvanised	We understand that there is no requirement of hot dip galvanising for fire fighting system like fire fighting supports, piping, pylon supports etc. Same shall be painted as primer and red paint as per TAC requirement. Pls confirm.	As per the requirement of technical specification
191	Volume-II	Chapter 10 – General Technical Requirement, Air Conditioning, Clause no. 2.3.2	Controllers shall be provided in Control room and Battery room, one controller for each room, to control and monitoring of AC units and shall have the following facilities; - Standby units shall come in to operation automatically when the running main unit fails - Main and standby units shall be changed over periodically which shall be finalised during detailed engineering.	Standby AC units qty will be considered for 20% of required tonnage capacity for Control Room, Relay Room & Battery Room only. For other rooms no standby unit shall be considered. Please Confirm. Further Microprocessor based Controller shall be provided for Control Room, Relay Room & Battery Room only, for Sequential Switching of Main & Stand-By units. only power off and high temp alarm signal is sufficient to monitor the system. pls confirm.	shall be decided during detail engineering.
192	Volume-II	Chapter 10 – General Technical Requirement, Air Conditioning, Clause no. 2.3.2	Air Conditioning System	Office room, Manager Room, Control room, panel room and battery room is considered for Air condition unit. Rest all rooms is considered for ventilation system only.pls confirm.	shall be decided during detail engineering.
193	Volume-IIB	Chapter 10 – General Technical Requirement, Air Conditioning, Clause no.1.2	Air conditioning units for control room building shall be set to maintain the inside DBT at 24^{o} C ± 2^{o}C	To optimize the Battery sizing, battery room inside temperature shall be maintained between 22 - 24 deg C with Cooling type AC units (working & standby) and battery design shall be done considering inside battery room temperature. Pls confirm.	shall be decided during detail engineering.
194	General		Air Conditioning System	Heating system is not envisaged for this Substation Please confirm.	Heating & cooling both are mandatory
195	Volume-III	LAYOUT OF SITALPATI SUBSTATION(NEA/SITALPATI-GIS/SS/LAYOUT/02)	132 KV switchyard panel room, 11KV panel room, 33KV panel room	We understand that package AC system to be considered for 132 KV switchyard panel room and Split type AC to be considered for 11KV panel room, 33KV panel room. Pls confirm.	shall be decided during detail engineering.

Clarification 1					
S.N.	**Volume/Section**	**Clause**	**Clause Description**	**Bidder's Query**	**NEA clarifications**
196	General/Tumlingtar Substation	-	Fire fighting system	We understand that, there is no Fire protection system is envisaged. Please confirm.	Confirm
197	General/Tumlingtar Substation	-	Air Conditioning System	We understand that, there is no HVAC system is envisaged. Please confirm.	Confirm
198	General/Tumlingtar Substation	-	General	Is there any requirement of New SPR for extn line bays or we have to accommodate panels in existing SPR/building.	Panels shall be accommodated in existing CRB.
199	Volume-III	Schedule No.4B.2 SL NO 14	Rail cum road	Rail cum road We understand that Miscellaneous Structural steel used for rail and rail fixing insert plates in rail cum road shall be paid separately as per "Schedule No.4B.2 SL NO 9". Please confirm the same.	Confirm
200	Volume-III	Schedule No.4B.2 SL NO 14	Rail cum road	Please provide the standard drawing for Rail cum road	It is in the scope of Successful bidder.
201	Volume-IIB	Chapter-23 Drawings	Typical sections of RCC road NEA/SITALPATI-GIS/SS/RCC ROAD/26	Typical cross sections of RCC road shows drain on one side/both sides. We understand that drain work shall be paid separately as per "Schedule No.4B.2 SL NO 18". Please confirm the same.	Typical cross sections of RCC road shows drain on one side/both sides. However, drain may not be adjacent to the road at all chainages. Location of drain shall be decided during detail design engineering. We confirm that drain shall be paid separately.
202	Volume-IIB	Chapter-23 Drawings	Typical sections of RCC road NEA/SITALPATI-GIS/SS/RCC ROAD/26	Please provide the spacing of expansion joints to be kept.	Shall be decided during detail design engineering.
203	Volume-III	Schedule No.4B.2 SL NO 2	Excavation of Foundation	"Excavation of Foundation in all types of soil and rock including backfilling disposal etc. for all leads and lifts" We request you to divide this line item further in two sub parts 2.1 "Excavation of Foundation in all types of soil including backfilling disposal etc. for all leads and lifts" and 2.2 "Excavation of Foundation in all types of rock including backfilling disposal etc. for all leads and lifts"	Provision of price schedule remains unchanged